

VAENTHAN JEEVARAJAH

//Software Engineer

✉ v2jeevar@uwaterloo.ca
👤 vaenthan.tech
🌐 linkedin.com/in/vaenthanj
🐙 github.com/vaenthan18

Technical Skills

Languages and Tools: Java, C, C++, C#, Python, JavaScript, HTML, CSS, SQL, Vim, Latex, Git, bash

Design and Animation: Adobe XD, Photoshop, Illustrator, After Effects, Sketch

Projects

Tangible – Universal Touch Screen Device | **C++** | **Arduino** | **C#** | **Java** (Fall 2019)

- Created a device that can be secured to any monitor to add touch-free input capabilities using an **Arduino Leonardo** interfacing with an array of **ultrasonic sensors**
- Implemented **signal processing** and communication in **C++** for high performance
- Demonstrated responsiveness of the device by developing a suite of applications

Asteroids – Desktop Game | **Java** (Spring 2019)

- Developed a multidirectional spaceship shooter game in Java using **OOP** methodologies
- Implemented **game physics and collision detection** mechanics
- Features spawning enemies, powerups, and **database I/O** for a custom score screen

Portfolio Website | **AngularJS** | **SASS** | **Bootstrap** | **jQuery** (Winter 2020)

- Developed a responsive modern portfolio website using AngularJS (<https://vaenthan.tech>)
- Implemented intricate **animations** in SASS, Typescript, and jQuery

Picturesque – Image Editor | **Java** (Summer 2018)

- Created a raster graphics editing application in Java with features such as **Gaussian blur** of variable radius, bulge effect, colour filters (e.g. sepia), **linear undo/redo model**, etc.

Experience

IT Technician - The Rolling Stones / Veld Music Festival (Jul 2019 – Aug 2019)

- Installed and maintained **payment systems** throughout these two events attended by over **100,000 individuals** collectively
- Projected profits were exceeded by **over \$400,000** for the booths I oversaw
- Developed strong interpersonal and problem-solving skills while troubleshooting issues

University of Toronto – Research Intern (Oct 2018 – Mar 2019)

- Worked in a team to develop the **research methodology** for a study concerning diabetes prevalence in South Asian Youth along with knowledge translation efforts

Education

University of Waterloo

Bachelor of Software Engineering (B.SE)

Candidate (2024)

GPA: 3.97/4.0 (91.2%)

Relevant Courses: Data Abstraction and Implementation, Programming Principles

Interests

- Basketball / NBA
- Photography
- Hip Hop
- Graphic Design

Awards and Recognition

Hack the Barriers – Winner

- Demoed an application that uses **NLP** and **deep learning** allowing users to communicate with a chatbot while correcting the user's grammar

University of Toronto – National Biology Scholar

- Placed in the top 2% of students in Canada in both 2018 and 2019

President's Scholar with Distinction